

19990530.qrp v01\_n473.qrl.990530

Date: Sun, 30 May 1999 19:03:11 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1473

### QRP-L Digest 1473

Topics covered in this issue include:

- 1) [41628] Great service from Dan's  
by "Jeffrey L. L. Greer" <wd4et@juno.com>
- 2) [41629] WPX Solar/Storm Update  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 3) [41630] RE: SSB 10Meter rigs/24HR WWV clocks  
by "Bob Follett" <bfollett@ditell.com>
- 4) [41631] 10M SST OPERATES  
by mjfitz@uswest.net
- 5) [41632] Re: cleaning shack -for sale  
by Don Minkoff <cowchip@mediaone.net>
- 6) [41633] Re: 2N22/40 Audio Transformers  
by "Jim Kortge, K8IQY" <jokortge@cwix.com>
- 7) [41634] 15m QRP, FB!  
by "Toru Kato" <jg1rvn@inv.co.jp>
- 8) [41635] QRPp humor by N6KR  
by Mike Mullins <mmullins@mastnet.net>
- 9) [41636] Re: Not QRP but interesting Appliance Repair problem  
by guillotstutoring@juno.com
- 10) [41637] Re: What portable antenna??  
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
- 11) [41638] Web site  
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
- 12) [41639] Callsign Server  
by malman@world.std.com (Joel Malman)
- 13) [41640] Re: Callsign Server  
by "Ken Hanks" <kennfd@snet.net>
- 14) [41641] Re: Callsign Server  
by "Chuck Carpenter" <w5usj@globeco.net>
- 15) [41642] My solar system pics on the web.  
by Fred Bennett N9TA <N9TA@worldnet.att.net>
- 16) [41643] Re: Callsign Server  
by Doc - W5TB <w5tb@softhome.net>
- 17) [41644] GAP C  
by "James R. Duffey" <jamesd1@flash.net>
- 18) [41645] Lots of answers  
by malman@world.std.com (Joel Malman)
- 19) [41646] restarting qrp-l

- by Peter James <mrpj@mindspring.com>
- 20) [41647] Re: Lots of answers  
by Pete and Ros <peteros@home.com>
- 21) [41648] Re: QRPp humor by N6KR  
by Ron Stark <ku7y@dri.edu>
- 22) [41649] Re: WPX  
by Ron Stark <ku7y@dri.edu>
- 23) [41650] multi-element driven array question  
by "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>
- 24) [41651] RE: Bencher Mercury Paddles at Dayton???
- by "Henry Knoll" <knoll003@tc.umn.edu>
- 25) [41652] Re: QRPp humor by N6KR  
by "Joe Spencer" <KK5NA@quadj.com>
- 26) [41653] Spring Bouquet Log: VE3ELA  
by Ken La Rose <kenlar@csolve.net>
- 27) [41654] Re: Callsign Server  
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
- 28) [41655] Re: Lots of answers (ITU list)  
by Pete and Ros <peteros@home.com>
- 29) [41656] 20 & 15 Wide open this morning  
by david fouchey <dafouchey@home.com>
- 30) [41657] Re: multi-element driven array question  
by Bob Edwards <w4ed@flash.net>
- 31) [41658] possible portable operation...grid DN00  
by Mighty Mik <mitymik@hooked.net>
- 32) [41659] Re: Callsign Server  
by Hank Kohl K8DD <k8dd@arrl.net>
- 33) [41660] Computerized CW  
by Johnny Belshe <km5im@telepath.com>
- 34) [41661] Uniden CB conversion  
by "Steven Weber" <kd1jv@moose.ncia.net>
- 35) [41662] Re: Spring Bouquet Log: VE3ELA  
by Terry Bendell <terryb@bmts.com>
- 36) [41663] Brian's Desert Ratt Page  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 37) [41664] Re: Lots of answers (ITU list)  
by N7YA@aol.com
- 38) [41665] looking for website  
by "Grindrod, Ross [Pulp & Paper]" <GRINDRR@chh.co.nz>
- 39) [41666] K4MSW web page: plz send in link corrections  
by sda <sda@bellsouth.net>
- 40) [41667] Re: GAP C  
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

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Date: Sat, 29 May 1999 19:05:37 EDT  
From: "Jeffrey L. L. Greer" <wd4et@juno.com>

To: qrp-1@Lehigh.EDU  
Subject: [41628] Great service from Dan's  
Message-ID: <19990529.190907.4222.0.wd4et@juno.com>

When I began searching for 2n2/40 parts, the first place I checked was Dan's Small Parts web page. He had a partial kit listed right at the top. While I was at it, I ordered several other items that I needed.

I have ordered from Dan't several times and usually received the parts in a couple of weeks or so. This time, the turnaround was only 1 week. The parts were packaged nicely and no back orders.

I probaly saved 50% compared to one of the major suppliers.

I'm just a satisfied customer.

73, Jeff WD4ET in Jacksonville, FL

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or call Juno at (800) 654-JUNO [654-5866]

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Date: Sat, 29 May 1999 17:46:17 -0600 (MDT)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-1@lehigh.edu  
Cc: cqclist@mtechnologies.com, jmedley@ix.netcom.com  
Subject: [41629] WPX Solar/Storm Update  
Message-ID: <Pine.SUN.4.10.9905291730070.6400-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

There was a C-class flare thursday, for which the shockwave was predicted to hit the earth, and trigger a geomagnetic storm, late today (saturday), which could adversely effect those of you participating in the WPX contest.

GOOD NEWS ... doesn't appear this will happen. Evaluation of data suggests the CME was just over the limb of the sun and not associated with the flare, except for coincidental timing. The CME, being on the limb of the sun, means the shock wave is 90 degrees from us. Also, no shock wave has been detected by satellites.

The geomagnetic field is expected to be quiet through the WPX contest period. 40M should be fairly quiet shortly after local sundown.

Today's planetary A-Index was 7, or fairly quiet conditions, and the 3-hour K-indexes around 2.

The solar flux is nearly 150, meaning good propagation on 10-15M during daylight hours. 20M should stay open longer than usual as well, although it will get very "flaky" around sunset as the E and F layers reconfigure themselves. Once that has settled down, you may get 2-3 hours of good 20M propagation. Don't be fooled by the heavy QSB on 15M and 20M at sundown ... they may sport good contacts for awhile after dark.

Also, take advantage of the north-south "grey line" propagation on all bands during sundown/twilight. Most propagation paths tend to be east and west, but during sundown, north-south paths develop along the grey line. May have lots of QSB, but worth it for working into some areas you may not normally be able to hit from your QTH/antenna patterns.

There was an M-class flare today. However, any effect from it will not be a factor until Monday.

GL to all,  
72, Paul NA5N

-----  
Date: Sat, 29 May 1999 17:46:57 -0600  
From: "Bob Follett" <bfollett@ditell.com>  
To: "QRP-L Group" <qrp-l@lehigh.edu>  
Subject: [41630] RE: SSB 10Meter rigs/24HR WWV clocks  
Message-ID: <032d01beaa2d\$8ca7a5c0\$1c37b3cf@bfollett>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Lee & Gang:

I heard that R.S. is coming out with a replacement for their discontinued H??100 10M rig. They have supposedly made it all mode in the process. All I know, so don't ask for details.

UTC Clocks:

Also saw new product announcement for THE Clock that everyone was wishing for:

MFJ announced a 24Hr, WWV controlled, digital clock. I don't remember the details, and it hasn't appeared in their ads yet -- No more putting up with 12hr WWV receiver clocks!

73, Bob -- back from 3 weeks in Italy.

-----  
Bob Follett AB7ST  
2861 Estates Drive (435) 649 6457  
Park City, UT 84060

-----  
Date: Sat, 29 May 1999 19:26:54 -0500  
From: mjfitz@uswest.net  
To: qrp-l posts <qrp-l@Lehigh.EDU>  
Subject: [41631] 10M SST OPERATES  
Message-ID: <375085CE.10FDB665@pop.omah.uswest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Brewers--

Have posted a couple of times about the HB 10 M SST under development...

Worked a few stations with it today in the contest, including CW9A (Uruguay).

Have added a tuned input/output FET RF amp to front end, one of W1FB's designs (grounded-gate 2N4416A). Now you must turn DOWN the gain on strong signals... Didn't have much of an antenna, just a sloper dipole at 30 ft or so, pointed NW.

Puts out about 1.5 W. on a gelcell and sounds good on the big rig. Used LDG QRP autotuner and twinlead for feed. Tunes 28.043-.063 at the moment, with a single VXO xtal (16 MHz + freq. doubler).

Think I'll try and find a few minutes to run it tomorrow--mid-late afternoon here in IA (CDT). Be around .060 calling CQ QRP...

Mike KI0AF Mo. Valley, IA

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Date: Sat, 29 May 1999 17:28:54 -0700  
From: Don Minkoff <cowchip@mediaone.net>  
To: qrp-l@Lehigh.EDU  
Subject: [41632] Re: cleaning shack -for sale  
Message-ID: <37508646.F1B3F8CE@mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=x-user-defined  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I need to unload some items that have not been getting any use since I built a year ago the Sierra.

I have the following for sale: Heathkit HW-9 with all manuals plus WARC bands. The condition is a 8 or 9. Slight scratch on top and a hole (pot with knob) on front panel for keyer speed. Keyer was removed but will leave knob/VR control. I am the second owner. Asking \$250.00. Will ship UPS for an additional \$10 insured anywhere in US.

MFJ9030 30M rig with built -in keyer and 500hz filter. Excellent condition. Asking \$150.

--

Don Minkoff - NK6A

QRP-L #1517  
310-397-2984  
Mar Vista, CA

-----  
Date: Sat, 29 May 1999 20:32:37 -0400  
From: "Jim Kortge, K8IQY" <jokortge@cwix.com>  
To: adams@ticnet.com  
Cc: qrp-l@lehigh.edu  
Subject: [41633] Re: 2N22/40 Audio Transformers  
Message-ID: <3.0.1.32.19990529203237.00e5fb88@mail49.cwix.com>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

At 06:10 PM 5/28/99 -0500, you wrote:

>  
>  
>Gang,  
>

>John, N5INZ, gave me about 100 Mouser TM008 audio  
>transformers. These are 800 ohm : 8 ohm CT both  
>sides. See the catalog for the description.

>

>If Jim can mod his circuit to work with these then  
>I'll see if the gang in AZ can distribute these.  
>The whole bunch is pretty heavy and will cost some  
>postage (a lot) to mail out.

>

Gang....this transformer will work fine with the following minor  
change to the audio output section. Resistors R38 and R39 should  
be changed from 470 ohm to 220, and the transformer will be a decent  
match. Actually, these resistors can be changed with the 1.2k-8  
ohm transformer specified, if you would like to get more audio  
output at the expense of more static current draw on receive.

This change will increase the static draw from about 110 milliamperes,  
up to about 135 milliamperes. I've not made the actual change in  
a rig to verify these numbers, only going from the computer modelling.

BTW, someone posted to the list about a Radio Shack transformer that  
was suitable for T10. It is RS part number is 273-1380, and is a  
1K-8 ohm, which should work just fine.

72 to all and happy building.....Jim, K8IQY

-----

Date: Sun, 30 May 1999 11:05:50 +0900  
From: "Toru Kato" <jg1rvn@inv.co.jp>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [41634] 15m QRP, FB!  
Message-ID: <000501beaa41\$0f279100\$83649dd2@jg1rvn>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hai this is JG1RVN, Toru, TOKYO.

I am trying ARRL contest using GM-15 which is 15m CW QRP transceiver.  
Out put power is now 1 watt, using 4elements yagi 25mH,

I found 15m band have less noise than 20 or 40m.  
15m band is very good for QRP contact today.  
Even on 1W power, I can contact UA2, F, W4, W6, W7, KL7, VK4,  
almost all over the world.

Tokyo-W6 window open at 05JST and close at 15JST (10hours!) ,  
Tokyo-Europe open at 15JST and close at 06JST !  
We can hear some over seas station on 15m CW band recently.

Now it is a pity that GM-15 has closed out.  
New 15m QRP transceiver will be very much appreciated.  
72

-----  
JG1RVN Toru Kato  
jg1rvn@inv.co.jp  
-----

-----  
Date: Sat, 29 May 1999 22:20:52 -0500  
From: Mike Mullins <mmullins@mastnet.net>  
To: qrp-1@lehigh.edu  
Subject: [41635] QRPp humor by N6KR  
Message-ID: <3.0.5.32.19990529222052.00799350@mastnet.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

If you haven't read Wayne's "A (Dubious) De-Soldering Primer" in the latest QRPp on page 73, do so. Very funny, and superbly written. It's worth the price of the subscription. Mike KD5CMN in Lake Jackson TX

-----  
Date: Sun, 30 May 1999 01:55:01 -0500  
From: guillotstutoring@juno.com  
To: qrp-1@Lehigh.EDU  
Subject: [41636] Re: Not QRP but interesting Appliance Repair problem  
Message-ID: <19990530.015503.-878861.0.guillotstutoring@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

>We have to check for this before buying the appliance. Black and Decker has a similar problem.  
Ed Guillot, N5ED

>I need help with the repair of a Sanyo Model SC6500E Vacuum Cleaner.  
>



>  
>The problem, on attempting dis-assembly, is the housing is held  
>together  
>by 4 screws, two are standard phillips types and the remaining two  
>were  
>but the heads have been drilled out by the manufacturer.  
>

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or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Sun, 30 May 1999 10:33:41 +0100  
From: "Frank G3YCC" <[frank@g3ycc.karoo.co.uk](mailto:frank@g3ycc.karoo.co.uk)>  
To: <[w9zm@yahoo.com](mailto:w9zm@yahoo.com)>, "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [41637] Re: What portable antenna??  
Message-ID: <017801beaa81\$624d78a0\$6def5cc3@prsat0x1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Check out the FAQ's on my web page!  
All you need to know is there... I hope!  
Have a good trip

.....  
Frank G3YCC G QRP 042, G QRP Sales Officer.  
QRP web page <http://www.karoo.co.uk/g3ycc/>

-----  
Date: Sun, 30 May 1999 11:02:26 +0100  
From: "Frank G3YCC" <[frank@g3ycc.karoo.co.uk](mailto:frank@g3ycc.karoo.co.uk)>  
To: "QRP-L" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>, "GQRP-L" <[gqrp@onelist.com](mailto:gqrp@onelist.com)>  
Subject: [41638] Web site  
Message-ID: <022f01beaa83\$8bcda360\$6def5cc3@prsat0x1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Thanks for the 557 visits to my web site this week, the most I have had  
since moving to the new server, so I think you all know the new url. The

previous one, with Prestel, will be delated soon.

.....

Frank G3YCC G QRP 042, G QRP Sales Officer.

QRP web page <http://www.karoo.co.uk/g3ycc/>

-----  
Date: Sun, 30 May 1999 06:56:00 -0400 (EDT)  
From: malman@world.std.com (Joel Malman)  
To: qrp-l@Lehigh.EDU  
Cc: k1qm@world.std.com  
Subject: [41639] Callsign Server  
Message-ID: <199905301056.AA29900@world.std.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

It sure would be nice if there was a "Call-sign Server". You could send the server a call-sign and it would tell you the country. QSL info is optional.

Geee.. I worked 2 stations in the WPX 'test so far that I have NO idea where they are: Z72Z and ZI7LA. Now, I work a lot of DX, but I have never heard a Z7 or ZI callsign before. Any ideas?

--

/joel K1QM Concord, MA  
QRP-L 337, QRP-ARCI 9305

-----  
Date: Sun, 30 May 1999 07:59:58 -0400  
From: "Ken Hanks" <kennfd@snet.net>  
To: <malman@world.std.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [41640] Re: Callsign Server  
Message-ID: <000301beaa93\$fbefbc680\$83103ccc@acer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Joel:

Try:

[http://www.buck.com/cgi-bin/do\\_hamcall](http://www.buck.com/cgi-bin/do_hamcall)

This server has US and DX calls.

72,

Ken Hanks K1XS

KenNFD@snet.net

<http://www.qsl.net/k1xs>

-----  
Date: Sun, 30 May 1999 07:20:35 -0500  
From: "Chuck Carpenter" <w5usj@globeco.net>  
To: malman@world.std.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [41641] Re: Callsign Server  
Message-ID: <3.0.2.32.19990530072035.00692310@bosshog.globeco.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Joel,

I like QRZ for most callsign lookup. It's easier and faster to use than Buckmaster. Both are excellent resources. During contests there are often special calls issued. These usually won't be in the callsign databases.

<http://www.qrz.com/>

72/73 Chuck - W5USJ - EM22cv - Rains County - Point, TX

-----  
Date: Sun, 30 May 1999 08:25:36 -0500  
From: Fred Bennett N9TA <N9TA@worldnet.att.net>  
To: CW Reflector <cw@qth.net>, FIST CW Club <FISTS@qth.net>, QRP-L <qrp-l@Lehigh.EDU>  
Subject: [41642] My solar system pics on the web.  
Message-ID: <37513C50.8DD8B5E2@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Gang

I finally got around to putting some pictures of my modest solar system on my web page. This system currently powers

my whole station (Kenwood TS 870, Yaesu FT 290 2 meter  
allmode, and Drake SW2 shortwave receiver). I hope to replace  
the TS 870 with a Elecraft K2 very soon.

The pictures are at: <http://home.att.net/~n9ta/photo.htm>

73.....de.....Fred N9TA

-----  
Date: Sun, 30 May 1999 08:29:02 -0500  
From: Doc - W5TB <w5tb@softhome.net>  
To: malman@world.std.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [41643] Re: Callsign Server  
Message-ID: <3.0.3.32.19990530082902.007532c4@pop.SoftHome.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 06:56 AM 5/30/99 -0400, Joel Malman wrote:  
>It sure would be nice if there was a "Call-sign Server". You could  
>send the server a call-sign and it would tell you the country. QSL  
>info is optional.

Hi Joel! What you are looking for is the K4UTE Prefix Finder -- it's at  
<http://no4j.com/nfdxa/dxccc/dxccc.asp>

no qsl routes, but you get the country issuing the call sign -- VERY handy  
during the wpx contest :-)

for this and links to the qsl databases check my web page

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>  
fax 1-916-404-6051 NORCAL ZOMBIE ARRL Life Member  
QRP-1 # 3252 QRP-L #673 FISTS # 5365

-----  
Date: Sun, 30 May 1999 08:18:02 -0700  
From: "James R. Duffey" <jamesd1@flash.net>  
To: "jskalski@localnet.com" <James.Skalski@deimos.flash.net>  
Cc: qrp-1@lehigh.edu  
Subject: [41644] GAP C  
Message-ID: <199905301418.JAA25869@mailgw.flash.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit  
Content-Transfer-Encoding: 7bit

Jim - I saw your comments on the GAP-C and the replies to it on QRP-L.  
Thanks for calling it to our attention. I was particularly interested in the comment:

"He refered to it as an E.D.R. or E field dominated radiator."

In the far field of an antenna, several waelngths in distance, the electric field and magnetic field are equal in magnitude. This can be shown from Maxwell's equations. (When I was younger I could do this. Now I can't even find my copy of Jackson. :^)) In fact, this is a subset of a more important discovery that Maxwell made which is that an electric field cannot exist without an accompanying magnetic field, and vice versa.

In the near field, say less than a wavelength one field may dominate over the other, but in the far field (which we QRPers are interested in) the magnitudes are equal.

The statement about an E Field dominated radiator makes me wonder if the guy who said that knows much about how antennas work.

I suspect that there is nothing magical about this antenna and that it will perform about as well as any short fat radiator on a small ground plane. The fact that it is patented means little.

Some have sugested that the anenna is a relative of hte CFA(Crossed Field Antenna). That antenna has been the subject of a lot of discussion on the NEC reflector recently. The conclusion there, after extensive modeling, is that it does not function any better than one would expect for an antenna of that size. I believe that a post on the antenna newsgroup by a set of Harris engineers who have made measurements on a CFA installation in Egypt came to the same conclusion.

There are no miracle antennas. Unlike other parts of life, in antennas, size matters. And usually the bigger and higher the bettter-for antennas. - Dr. Megacycle KK6MC/5

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Date: Sun, 30 May 1999 10:32:08 -0400 (EDT)  
From: malman@world.std.com (Joel Malman)  
To: qrp-l@Lehigh.EDU  
Subject: [41645] Lots of answers  
Message-ID: <199905301432.AA18817@world.std.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Group,

I got a lot of answers to my country question. Most everyone thinks that Z72Z is from a Balkan country, probably Albania.

Everyone thinks ZI7LA is New Zealand. Very good chance they are right. New England to ZL/VK/JA was (is) open big-time on 15 meters this weekend. BTW: 10 meters seems to be open, but no one (except the CB'ers) is using the band.

Guess I'll be sending off some QSL cards this weekend ... via the burro.

--

/joel K1QM Concord, MA  
QRP-L 337, QRP-ARCI 9305

-----  
Date: Sun, 30 May 1999 10:59:55 -0500  
From: Peter James <mrpj@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [41646] restarting qrp-l  
Message-ID: <3.0.5.32.19990530105955.007b9100@pop.mindspring.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Would someone please email me the correct wording to use to reinstate my qrp-l after a postponing. thanks in advance---  
72, 73, Pete, WM4U

-----  
Date: Sun, 30 May 1999 09:13:50 -0600  
From: Pete and Ros <peteros@home.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [41647] Re: Lots of answers  
Message-ID: <375155AE.FEB8F394@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Joel Malman wrote:

> Everyone thinks ZI7LA is New Zealand.

I don't think so. The ITU prefixes for New Zealand are ZK-ZM which does not include ZI. The ITU prefix list shows ZB-ZJ as being allocated to the UK. My guess is that it is Northern Ireland.

I vaguely remember reading on the RSGB web pages somewhere that during contests UK hams are allowed to use any UK oddball prefix provided that it still indicates where they are located. So a GI could change to a ZI because ZI is a UK prefix and the second letter still indicates location. However, a GM could not use ZM because that is allocated to New Zealand.

I can't find any info on Z7 either.

73 de Pete VE5VA

-----  
Date: Sun, 30 May 1999 08:15:08 -0700 (PDT)  
From: Ron Stark <ku7y@dri.edu>  
To: Mike Mullins <mmullins@mastnet.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [41648] Re: QRPp humor by N6KR  
Message-ID: <Pine.SOL.3.96.990530081125.13735F-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 29 May 1999, Mike Mullins wrote:

> If you haven't read Wayne's "A (Dubious) De-Soldering Primer" in the latest  
> QRPp on page 73, do so. Very funny, and superbly written. It's worth the  
> price of the subscription. Mike KD5CMN in Lake Jackson TX

Hi Mike and all,

I don't know what is in the Winter issue of QRPp but the April issue of the QRP ARCI Quarterly has Wayne's "De-Soldering Primer" on page 73!

: -)

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Sun, 30 May 1999 08:22:55 -0700 (PDT)  
From: Ron Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [41649] Re: WPX  
Message-ID: <Pine.SOL.3.96.990530081800.13735G-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 29 May 1999, Al Gritzmacher wrote:

> Mike Boice wrote:  
>  
> At 11:12 99/05/24 -0700, Ron wrote:  
> >Don't forget that this weekend is the CQ WPX CW contest.  
> Ah.....now I see why you're mentioning the contest - you hold the  
> CW Single Op All Band record! Looking for competition, eh? ;-)  
>  
> Not competition, he's looking for fodder!

Hi All,

Guess I should clear this up.....I don't hold the record. Not even close! (I wish I was good enough to but that's another story!)

And this year the cold bug won.....I stopped about 7 hours into the contest and went to bed. Spent all of Sat in bed and just got up awhile ago...(It's Sun AM). So no good score from me this year.... :-(

40m was close to a bust. 20m was open all night and there just was not much activity on 40m. I was able to hold a run freq any time I wanted to! The band was in good shape....I worked EU, SA and PAC without any trouble. Just not enough activity.

I may go play on the high bands a little later if the head starts feeling better!

cul,

73, Ron,       SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....



-----  
Date: Sun, 30 May 1999 10:23:01 -0500 (CDT)  
From: "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>  
To: qrp-l@lehigh.edu  
Subject: [41650] multi-element driven array question  
Message-ID: <Pine.LNX.4.04.9905301008500.26910-1000000@divis17.ped-gen.uiowa.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi.

I was browsing through the Multielement Array chapter in the ARRL Antenna Handbook (17th edition, 1 back), and was looking at the illustrations of "other forms of multielement driven arrays" (p. 8-39 in the 17th edition, should be right after the description of the W8JK array in other editions). This shows various forms of multielement verticals, with various spacings, all driven either in or out of phase.

Wasn't sure of one thing: If we take the phasing line to be made of twinlead or ladder line, is it correct to interpret the illustration as showing one conductor of the phasing line open at each end (in the bottom fed varieties)?

Has anybody here experimented with this antenna?

Thanks much.

--adam

Today got to clean up the remains of the push-up pole (with VHF/UHF/TV antennae) and the SLV that had a run in with a tractor. It was a decisive loss to the antenna structures. Tractor (Ford #1910) and driver (XYL) suffered no harm.

72/73,  
--adam, ak0p  
adam-kanis@uiowa.edu

-----  
Date: Sun, 30 May 1999 10:24:45  
From: "Henry Knoll" <knoll1003@tc.umn.edu>  
To: ki6ds@dpol.k12.ca.us  
Cc: qrp-l@lehigh.edu  
Subject: [41651] RE: Bencher Mercury Paddles at Dayton???

Message-ID: <iss.1f88.37515820.cd68a.1@gold.tc.umn.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Doug

Yes, Bencher did have their Mercury Paddle at Dayton. It looked just like the original, but I didn't have much of a chance to play with it. They had the gaps set much wider than mine so it was hard to judge. They were asking \$495.

73

Henry WA0GOZ

-----  
Date: Sun, 30 May 1999 10:47:57 -0500  
From: "Joe Spencer" <KK5NA@quadj.com>  
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [41652] Re: QRPp humor by N6KR  
Message-ID: <014c01beaab3\$ca7fe5c0\$0cd132ce@vectra>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi Gang,  
Here is another source for this great article, I first read it in the Feb 1999 issue of "The Lowdown" from the Colorado QRP Club.

72.3 Joe KK5NA

----- Original Message -----

From: Ron Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Sunday, May 30, 1999 10:15 AM  
Subject: Re: QRPp humor by N6KR

> On Sat, 29 May 1999, Mike Mullins wrote:

>

> > If you haven't read Wayne's "A (Dubious) De-Soldering Primer" in the latest

> > QRPp on page 73, do so. Very funny, and superbly written. It's worth

the  
> > price of the subscription. Mike KD5CMN in Lake Jackson TX  
>  
> Hi Mike and all,  
>  
> I don't know what is in the Winter issue of QRPP but the April issue of  
> the QRP ARCI Quarterly has Wayne's "De-Soldering Primer" on page 73!  
>  
> :-)  
>  
> 73, Ron, SOWP 5545M,  
>  
> .....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
> ....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
> ....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....  
>  
>

-----  
Date: Sun, 30 May 1999 11:49:17 -0700  
From: Ken La Rose <kenlar@csolve.net>  
To: qrp-canada@lists.gpfn.sk.ca  
Cc: qrp-l@Lehigh.EDU  
Subject: [41653] Spring Bouquet Log: VE3ELA  
Message-ID: <3751882D.58C8@csolve.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

May 26, 1999 7045+/- kHz Ontario Trilliums Awarded:

Time	Station	RST sent	RST rec'd	SPC	Name	QRP-C #/Pwr
01:07	K1QM	559	569	Ma	Joel	4 w
01:13	NA1XX	559	449	Ma	Mike	4 w
01:20	N8CQA	559	559	Mi	Buck	#58
01:56	N9MDK	559	539	IL	Greg	3 w

Comments: Had to QRT early at 02:15. Thanks to those who came looking for me. Sorry I missed some of you and could not stick around. Nice to chat with Joel, K1QM, who I meet in just about every contest! Also Buck, N8CQA, who I met during my first visit to FDIW a couple of weeks ago.

Was planning to operate from the field, but the pouring rain and 8 deg.C temp. put a damper on that idea. Ended up stringing a loop around the interior of my ground floor apartment in the tiny hamlet of Claremont

instead. Rig is a Heathkit HW-9 running 3 watts out.

For next year's event, I'd like to operate 20- and 15-meters as well. This I feel will yield continent-wide contacts, with greater participation and interest from Flower Pickers.

Thanks to Bruce, VE5QRP, Earl, VE6EWM, and Mary, WN6HYX for a job well done; organizing and administrating the first annual QRP-Canada Spring Bouquet!

72, de Ken VE3ELA Midland, On. Canada

-----  
Date: Sun, 30 May 1999 16:54:02 +0100  
From: "Frank G3YCC" <frank@g3ycc.karoo.co.uk>  
To: <malman@world.std.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [41654] Re: Callsign Server  
Message-ID: <007d01beaab4\$a58d7920\$07eb5cc3@prsat0x1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Does anyone know of a German call book on line that works?  
Thanks

.....  
Frank G3YCC G QRP 042, G QRP Sales Officer.  
QRP web page <http://www.karoo.co.uk/g3ycc/>

-----  
Date: Sun, 30 May 1999 09:54:58 -0600  
From: Pete and Ros <peteros@home.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [41655] Re: Lots of answers (ITU list)  
Message-ID: <37515F52.2082F575@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Joel Malman wrote:

> Most everyone thinks that Z72Z is from a Balkan country, probably  
> Albania.

They could be right, but I seem to remember that during the war in Bosnia, Serbs were using an unofficial prefix - I think it was Z5. So, perhaps, Z7 is a Serb station operating in Kosovo.

Z7 is not officially allocated by the ITU. See:

<http://www.itu.int/radioclub/ars.htm>

Follow the link at the bottom of the page to the table of callsigns.

73 de Pete VE5VA

-----  
Date: Sun, 30 May 1999 12:07:22 -0400  
From: david fouchey <dafouchey@home.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [41656] 20 & 15 Wide open this morning  
Message-ID: <3751623A.1813A906@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

20 and 15 meters are wide open this am, worked 9A9AA in Zagreb on 15 with 10 watts to a 40 meter dipole up only barely above rooftop. 57 report at that!

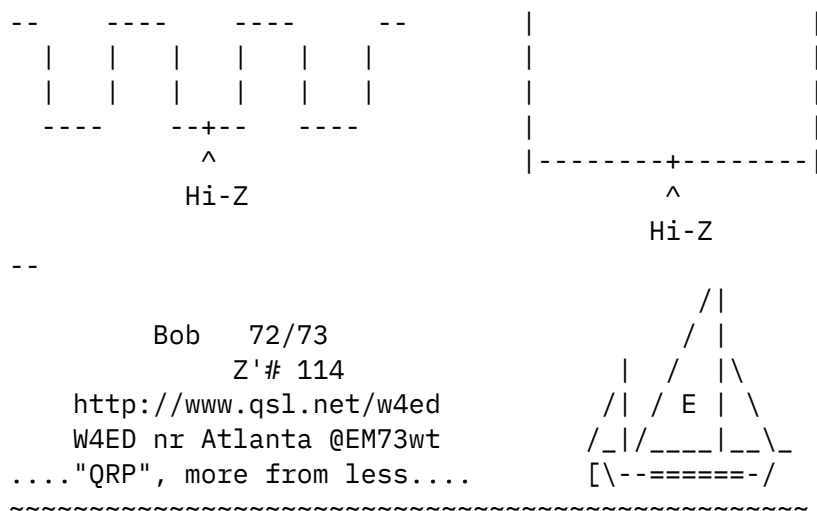
Dave  
WA4EMR  
Sterling Heights, MI.

-----  
Date: Sun, 30 May 1999 12:24:21 -0400  
From: Bob Edwards <w4ed@flash.net>  
To: akanis@divis17.ped-gen.uiowa.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [41657] Re: multi-element driven array question  
Message-ID: <37516635.C74B0E3A@flash.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

```
>....in the ARRL Antenna Handbook (17th edition,), ....(p. 8-39 )....
>....is it correct to interpret the illustration as showing one conductor
> of the phasing line open at each end (in the bottom fed varieties)?
```

Also, I have fed a Bruce array (p. 8-42) and a half square using only one side of the feed line connected to the array, other side open, and fed the array at a high impedance point. So yes, sorta to 2nd question. To be exact, I used a 300 ohm quarter wave Q section to step 50 up to ~ 3K ohms and only connected one side of the TV twin lead Q-section to the antenna (other side to 50 ohm coax, which went to SWR mtr & rig).

Hi-Z feed points for Bruce array and Half Square follow :



Date: Sun, 30 May 1999 10:00:56 -0700  
From: Mighty Mik <mitymik@hooked.net>  
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>  
Subject: [41658] possible portable operation...grid DN00  
Message-ID: <37516EC8.E991050F@hooked.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"

Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

I'll be in grid DN00 June 4,5,and 6...and my operate like 23:00z-??:00  
4/5th and 5/6th. there is NOT a lot in that grid. freq if i do is  
on/around 14.060. Look for WD8MNV/7

--

@@  
72/73 de Mick, WD8MNV/6 QRP-L #1673 QRP-C #118 ZOMBIE #441  
NC20 SWL40+ ZM-2 DSP-3 rocket scientist and a 6 meter wanna be.  
Aeropac #111 Tripoli #3071 Level 2

-----  
Date: Sun, 30 May 1999 13:07:15 -0400  
From: Hank Kohl K8DD <k8dd@arrl.net>  
To: frank@g3ycc.karoo.co.uk  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [41659] Re: Callsign Server  
Message-ID: <4.1.19990530130525.01571e60@192.0.0.1>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 04:54 PM 5/30/99 +0100, Frank G3YCC wrote:  
>Does anyone know of a German call book on line that works?  
>Thanks  
>.....  
>Frank G3YCC G QRP 042, G QRP Sales Officer.  
>QRP web page <http://www.karoo.co.uk/g3ycc/>  
>  
For DX, I've had good luck with:

<http://peachy.apana.org.au/callbook.html>

My page <http://www.tir.com/~k8dd> has a link to:

<http://www.qsl.net/ad5xa/callbook.html>  
which is very good, too.

73 Hank K8DD

-----  
Date: Sun, 30 May 1999 14:09:18 -0500

From: Johnny Belshe <km5im@telepath.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [41660] Computerized CW  
Message-ID: <37518CDC.9FA39662@telepath.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Hi

I am interested in computerized CW. I am using the Bay Pac BP-2M and the program Hamcomm for CW. Is there any other programs for CW or other mode that I can try with Bay Pac.

Johnny Belshe  
KM5IM

-----  
Date: Sun, 30 May 1999 14:40:03 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-1@lehigh.edu  
Subject: [41661] Uniden CB conversion  
Message-ID: <199905301924.PAA28313@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-Transfer-Encoding: 7BIT

Hi Gang,

Been doing some work on the Uniden PC122x1 converison board. I built a new PLL board similer the one used for the Maxon conversion, but this one has an op amp loop filter and side tone osc for doing CW.

I have it set up right now to tune the entire 10 M band in 1 Khz steps. The Clarifier fills in the gaps nicely. Power out is reasonably consistant from 28.0 to 29.2, then starts to tapper off for some reason, maybe the output LPF.

The next step is to figure out some kind of frequency read out. The display is non-multiplexed, so I'm thinking of wiring up one digit to the cpu and have it display the freq serialy, one digit at a time.

Doing a tri-band 15-12 and 10 conversion is looking like it will be a lot of work. Will have to change the PLL osc coil so it can tune 31



to 40 MHz instead of it's normal 17 Mhz range, add in a new Tx mixer and filter plus redo the Rx mixer and preamp. Might be more than most people are willing or able to do.

So, I plan on building in a number of jumper selectable software options on to the converison board.

Option 1 will be a single band conversion for 10, 12 or 15M.

10M conversion is the simplest to to do. Remove the PLL chip, wire in the conversion board and retune some coils. (Thankfully, they didn't use super glue on the slugs)

12M conversion will require some caps to be tacked across a half dozen coils so they will tune down to 25 Mhz. (or maybe not, haven't tried it yet)

15M conversion will need to have the VCO coil changed or modified so it will work at 31 Mhz, giving high side injection and will definately need to pad the Tx and Rx coils.

Option 2 would be the tri-band conversion. I woudn't supply the parts for doing this, only some ideas on how it could be done. From there you'd be on your own. Definately only to be attempted by people who know what thier doing.

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----

Date: Mon, 31 May 1999 04:59:51 +500  
From: Terry Bendell <terryb@bmts.com>  
To: <kenlar@csolve.net>  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [41662] Re: Spring Bouquet Log: VE3ELA  
Message-ID: <199905302101.RAA17499@Alice.BMTS.Com>  
MIME-Version: 1.0

On 1999-05-30 kenlar@csolve.net said:

>QRP-Canada Spring Bouquet!  
>72, de Ken VE3ELA Midland, On. Canada

Hi Ken!

I operate qrp over here in Collingwood, whats freqs you hang around on?

73

Terry

VE3TKB Collingwood Ont Can.

terryb@bmts.com

Net-Tamer V 1.11.2 - Test Drive

-----  
Date: Sun, 30 May 1999 15:28:33 -0600 (MDT)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-l@lehigh.edu  
Subject: [41663] Brian's Desert Ratt Page  
Message-ID: <Pine.SUN.4.10.9905301449470.10363-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

I finally got to go up and see Brian's (VE5RDV?) web page on the Desert Ratt. What a fantastic piece of work. I am impressed. Great job Brian.

Brian has the original hand-drawn Desert Ratt schematic of 1996 vintage (one of who knows how many versions) that comes up on the top part of a split screen display. You click on any circuit component, and the text description of that part of the circuit appears in the bottom portion of the page. It is basically the circuit description I posted to qrp-l last week, but Brian's approach makes it such a neat tutorial and troubleshooting tool. Really clever.

It is at: <http://duke.usask.ca/~buydens/ham/ratt/index.htm>

He's got some other neat ham radio stuff too (go back to /ham)

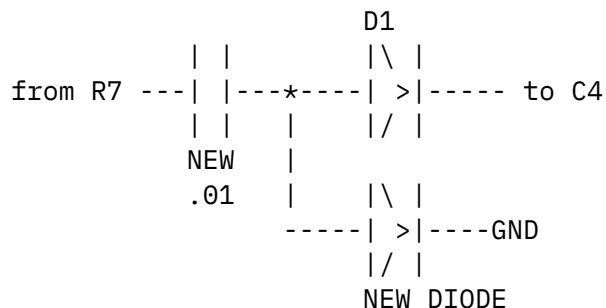
For those building the Desert Ratt from this schematic, I have two recommendations (changes) to be aware of.

1. There is an inductor missing between C1 (trim cap) and C2. It should be about 10-15uH. It is optional. The inductor makes a low pass filter with a cut-off frequency around 3MHz to keep AM and other low freq. signals out of the RF amplifier.

I disconnected mine last night (I'm using a 15uH peaking coil) and

it dropped the signal level, which was the BBC near 6MHz, by about half, so it does improve the impedance matching and gain peaking for the cheapie RF amplifier, Q1. If you use a trim cap for C1, you should be able to hear a distinctive peak.

2. If you are having trouble getting good regen action on yours, you might want to add a .01uF cap from the bottom of L1 to ground (this would, in effect, be in parallel with the 33uF cap). That is a filter cap for the 2V bias, which could be any electrolytic, say 4.7uF or larger. But some electrolytics tend to be lossy at RF. So a .01 cap there would provide a better ac path to ground at the RF frequency. L1 must be at ac ground (through a cap) for it to tune and regen properly. Note how L1 and C4, the tuning cap, is a parallel L-C tuned circuit. C4 is grounded, and therefore so must L1. Except we want the bottom end of L1 to be at the 2V DC voltage to send 2V Vcc to the collector of Q2. So ... the 33uF cap (or the new .01 cap) is what returns L1 to ground at RF to complete the tuned circuit, and lets the feedback energy, at C6 and C5, be properly injected into L1.
3. For better AM detector efficiency, put a .01 cap between R7 (in the Q3 emitter follower) and the detector diode, D1. Now, put another diode from the anode of D1 to ground as shown below:



This makes a voltage doubler circuit, and it indeed will bring the detected audio up 6dB, or twice the original. D1 and D2 should be the same type (both germaniums, or both 1N914's, etc.)

Try it - you'll like it.

Once you get your regen working, you have a wonderful platform to do all sorts of playing around and get a feeling of how basic circuits work. And to do some experimenting on your own for better diode efficiency, better fidelity, add a bass control, or whatever.

And by using Brian's excellent interactive circuit explanations, it will give you a good idea of what each component does and how you might add on or alter it.

GL and 72,  
Paul NA5N

-----  
Date: Sun, 30 May 1999 17:27:25 EDT  
From: N7YA@aol.com  
To: qrp-1@lehigh.edu  
Subject: [41664] Re: Lots of answers (ITU list)  
Message-ID: <e9c420bf.2483073d@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

In a message dated 5/30/99 9:00:37 AM Pacific Daylight Time, peteros@home.com writes:

<< Z7 is not officially allocated by the ITU. See: >>

For what its worth, ive been hearing a fast ZZ2Z on the air from Brasil. if indeed you trusted what you heard, then its a mystery to me and im good with prefixes. but i have never heard of Z7, it just might be ZZ2Z that you worked.

73...Adam, N7YA

-----  
Date: Mon, 31 May 1999 09:34:53 +1200  
From: "Grindrod, Ross [Pulp & Paper]" <GRINDRR@chh.co.nz>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [41665] looking for website  
Message-ID: <2A94A43A306ED2119A7C08002BE55A37D1A780@KN\_NTS4>  
MIME-Version: 1.0  
Content-Type: text/plain

Good Morning,  
I am trying to locate the web site for a power supply company called Lambda or wiring diagram for a power supply model g15 ovrv 6834.  
If any one can help it would be much appreciated  
Thanks Ross Z13DC

-----  
Date: Sun, 30 May 1999 17:07:24 -0500  
From: sda <sda@bellsouth.net>

To: qrp-1@Lehigh.EDU  
Subject: [41666] K4MSW web page: plz send in link corrections  
Message-ID: <199905302206.SAA09857@mail11.lig.bellsouth.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi ya'll:

Please send in any "links" corrections, etc., that you may have, even if you have sent them in the past becuz I may have lost them. Links are now alphabetized.

Also, just completed the Wilderness SST 30M and the VE3DNL marker generator kits. Excellent rig, and a neat little kit from Jay Bromley. Anyone box up the little marker generator yet? Was thinking it would be cool to have switch-selectable intervals 5khz, 10, etc.

Peace,

Todd Atkins, K4MSW  
Baton Rouge, Louisiana

<http://www.qsl.net/k4msw>

-----  
Date: Sun, 30 May 1999 18:42:28 -0400 (EDT)  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
To: "James R. Duffey" <jamesd1@flash.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [41667] Re: GAP C  
Message-ID: <Pine.GS0.4.10.9905301806220.22118-1000000@larry.cas.utk.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

The GAP C is predicated on developing a high value of capacitance between the "basket" on top and the "plate" below. This is not, according to GAP literature, a cross field antenna, because in the CFA, the fields are theorized to be generated independently and combined in the antenna in a manner independent of resonance. The C is, according to literature, a resonant antenna. The high C value is resonated with a very low value of L, composed in part of the support vertical for the basket and in part by a small loading coil in the network. This technique makes the antenna dependent on structure for resonance and hence a non-CFA.

However, according to GAP literature, the very high value of capacitance and low value of inductance gives the antenna a high electrostatic field and low electromagnetic field, This is said to reduce coupling to nearby objects, allowing the antenna to be used in tight quarters without detuning effects. It is the relative near field strengths that occasion the EDR name--while standard linear wire antennas, with higher magnetic field and lower capacitive field strengths, are called MDR. If the near field strengths are as reported, then there is some justice--at a casual level--in the two designations.

According to literature from GAP, a properly taken product of the two fields yields the ultimate far field radiation strength, and for a given product of the two fields, signal strength at a distance will be equal, whatever the relative strengths to each other of the two fields from which the product is generated.

This note is not intended to comment on the ultimate acceptability of the accounts of the principles behind either the C or the CFA. It is intended only to note the distinction between the two antennas. For example, efforts to replicate claimed CFA performance have centered about establishing two signals which are 90 degrees out of phase with each other, but each of which are in phase relative to voltage and current. In the C, establishment of a capacitance between the two elements (basket and plane) requires only adherence to the usual lead-lag rules for current relative to voltage. Resonance via the inductance in the circuit provides the compensation for the reactance of the high C value to establish an in phase result.

At present, I am aware of no reliable and replicable ham-band versions of the CFA, although some interesting experimentation is going on in North America, Europe, and Australia to see if the CFA principles can yield something useful to hams. On the other hand, the C has passed tests to the satisfaction of its manufacturer to yield an antenna for sale. Whether the antenna lives up to expectations is, of course, subject to user judgment.

The inventors of the CFA have at various times claimed that it cannot be modeled (although some involved in the group of inventors and developers have claimed to the contrary but have not provided a model yet). A number of veteran antenna analysts and modelers, including Jack Belrose and Jerry Burke (the latter being the key figure in the development of the NEC codes) have modeled the CFA and obtained results consistent only with a very small, fat monopole, capable of coupling to other objects near by due to a strong near field, but having a very small far field. Whether these models are adequate to the CFA is an open question in the discussion, although the modelers believe they have adequately analyzed the CFA.

The C, as a resonant antenna, should also be capable of being modeled. However, to this date, I am aware of no models having been made. Without access to certain construction details, including the precise structure by which the basket is fed on its 4 sides, any modeling would be speculative. However, in principle, the C can (and likely one day will) be modeled.

I hope this clarifies some of the claimed differences between the C and the CFA.

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LB, W4RNL

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